

Fig. 1.

WO 00/73793

PCT/CA00/00605

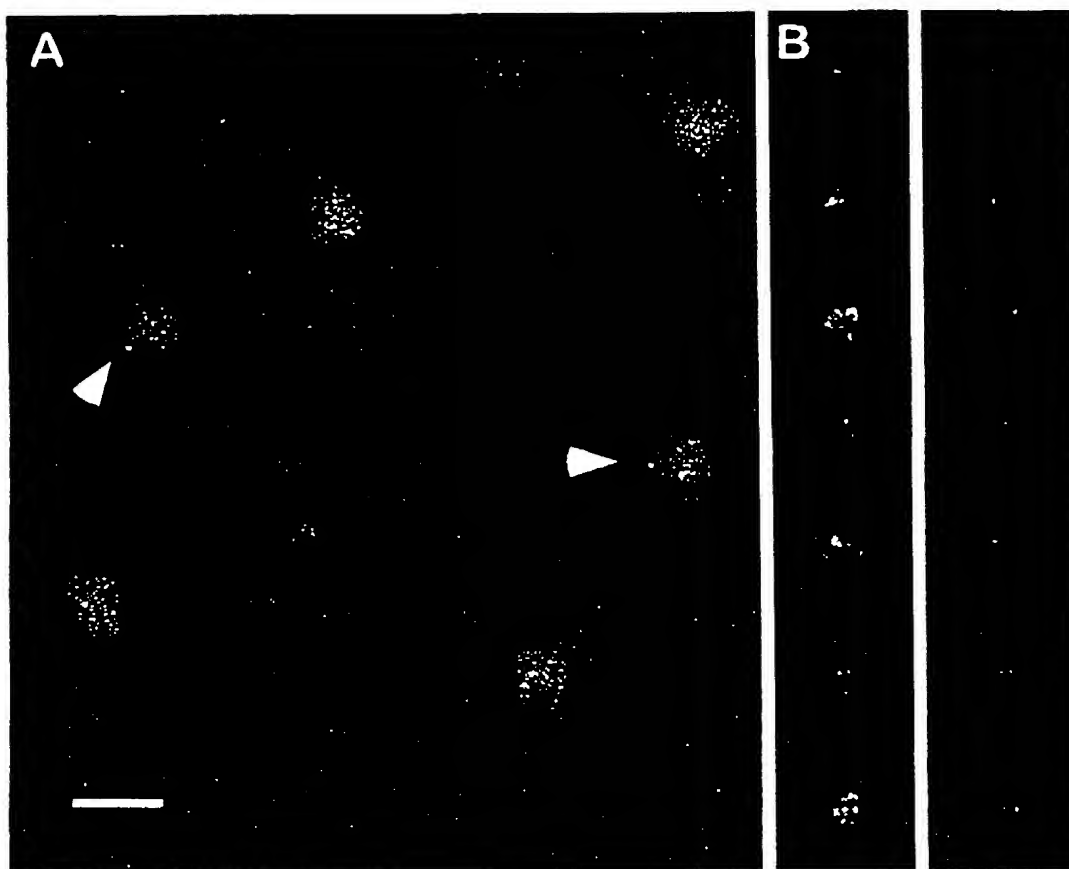


Fig. 2.

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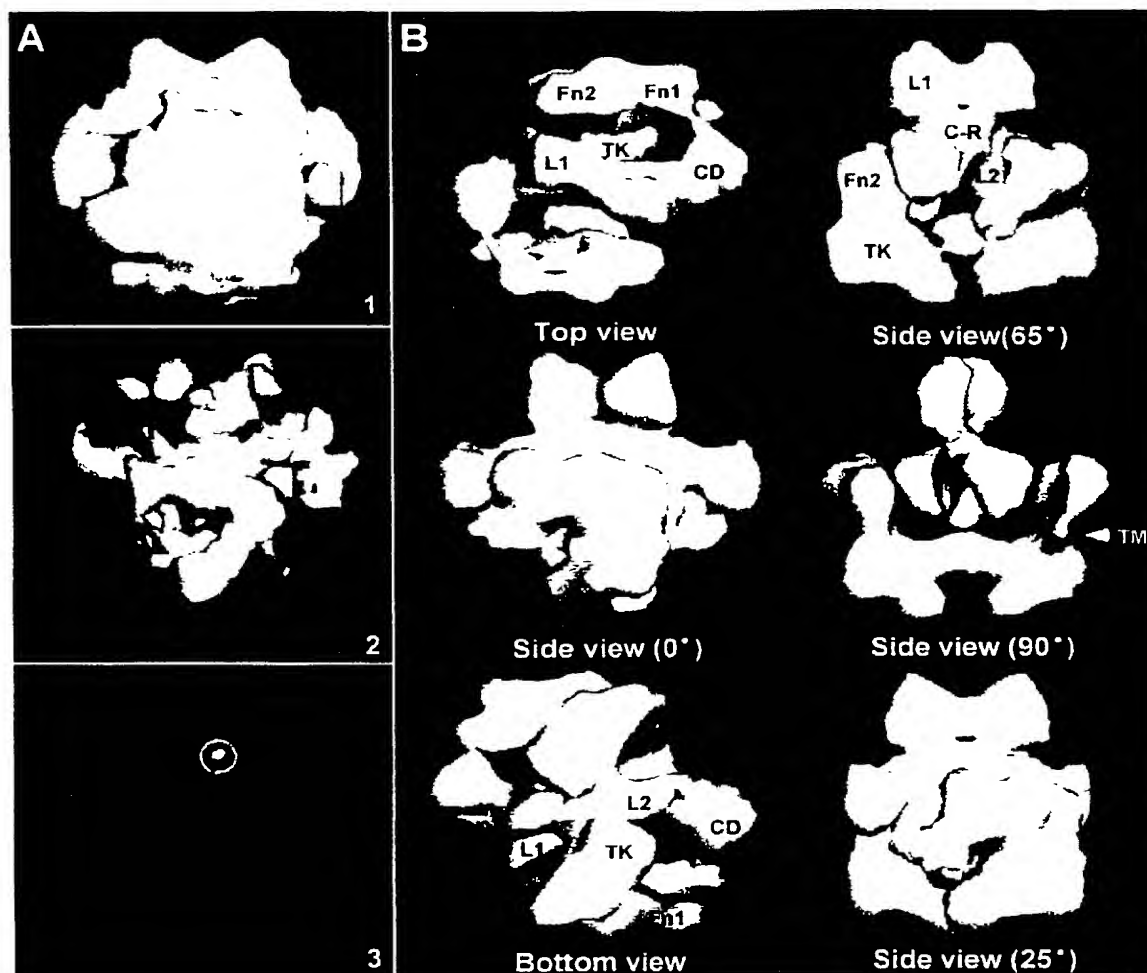


Fig. 3.

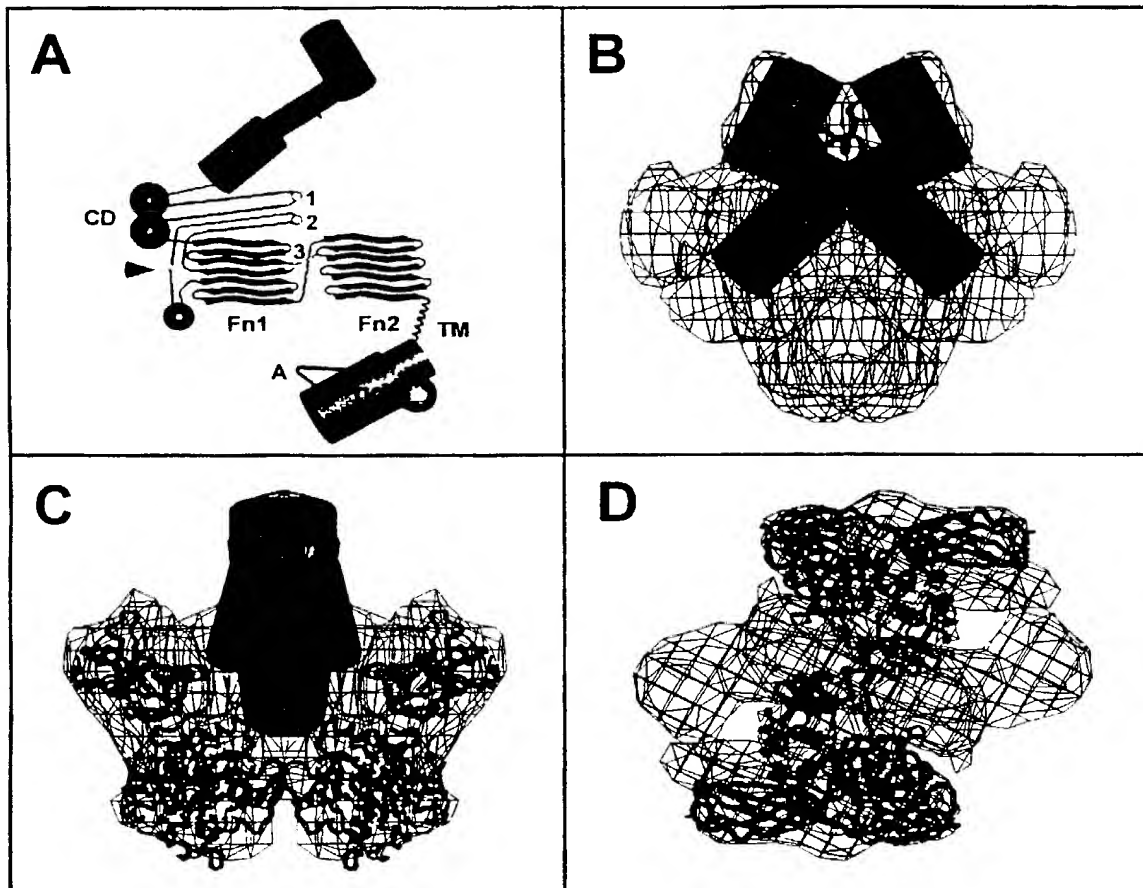


Fig. 4.

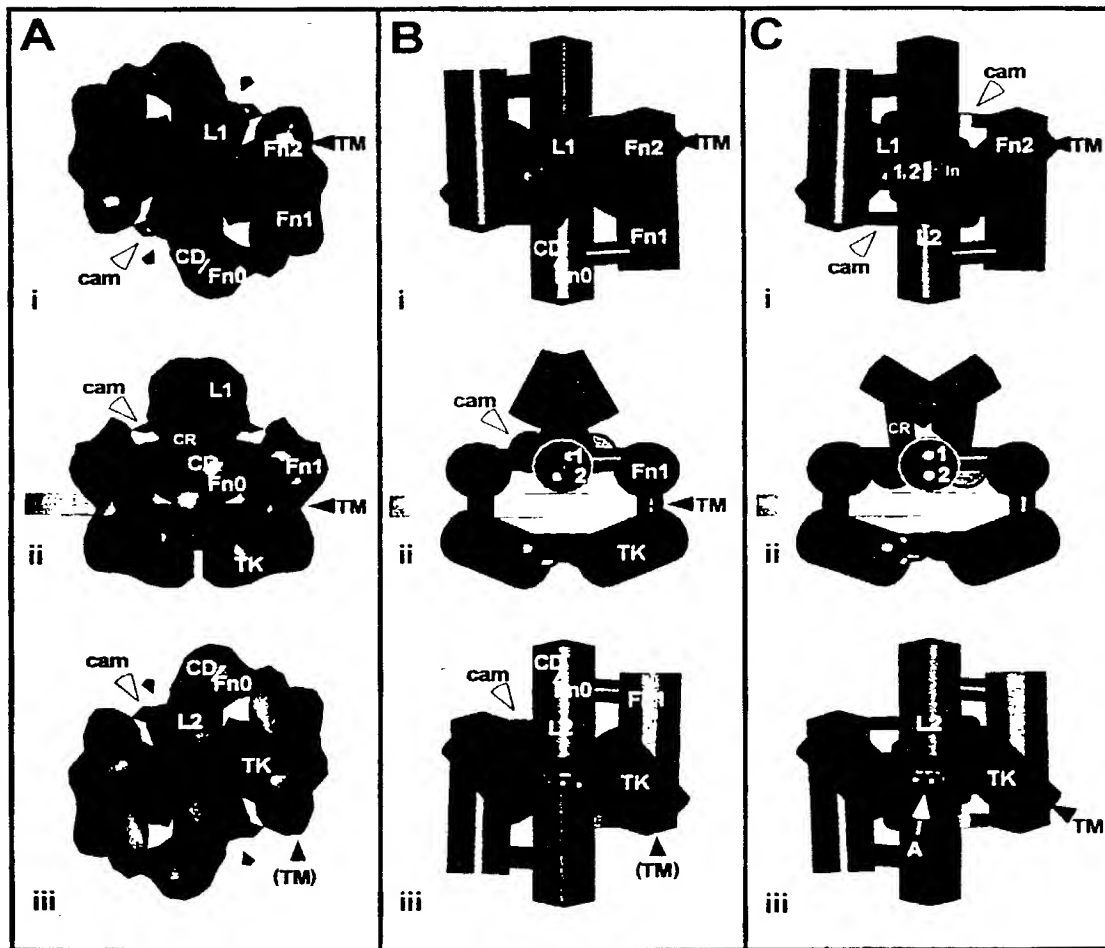


Fig. 5.

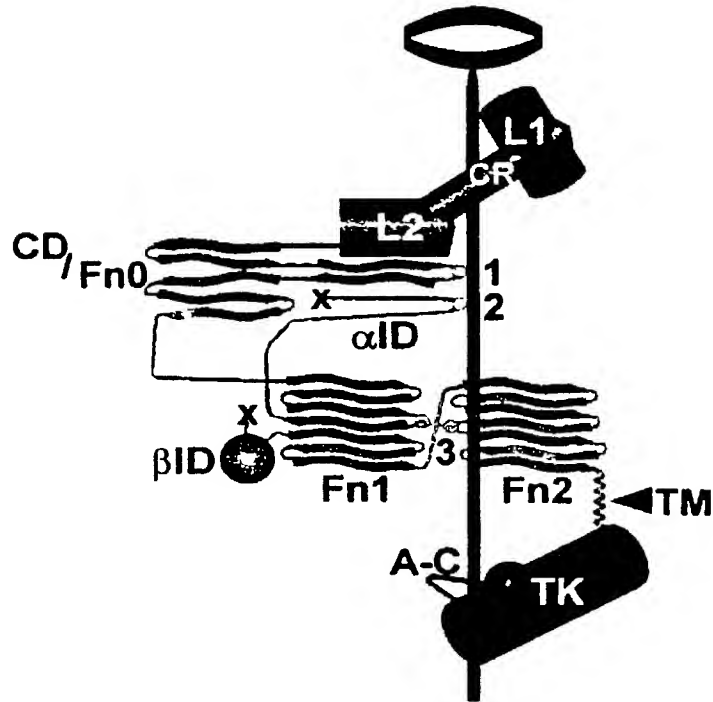


Fig. 6.

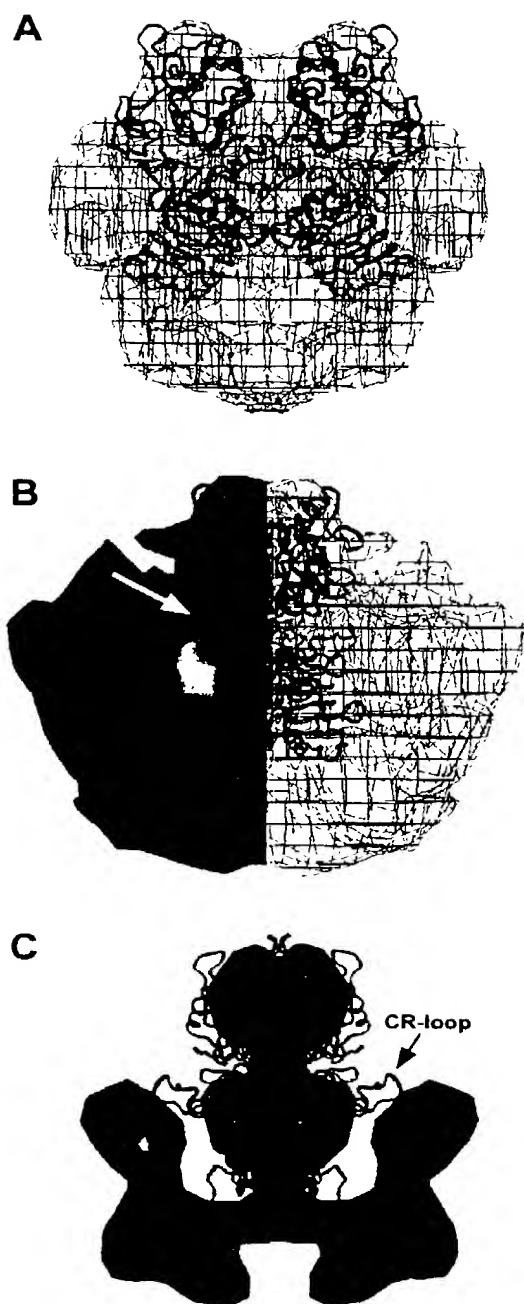


Fig. 7.

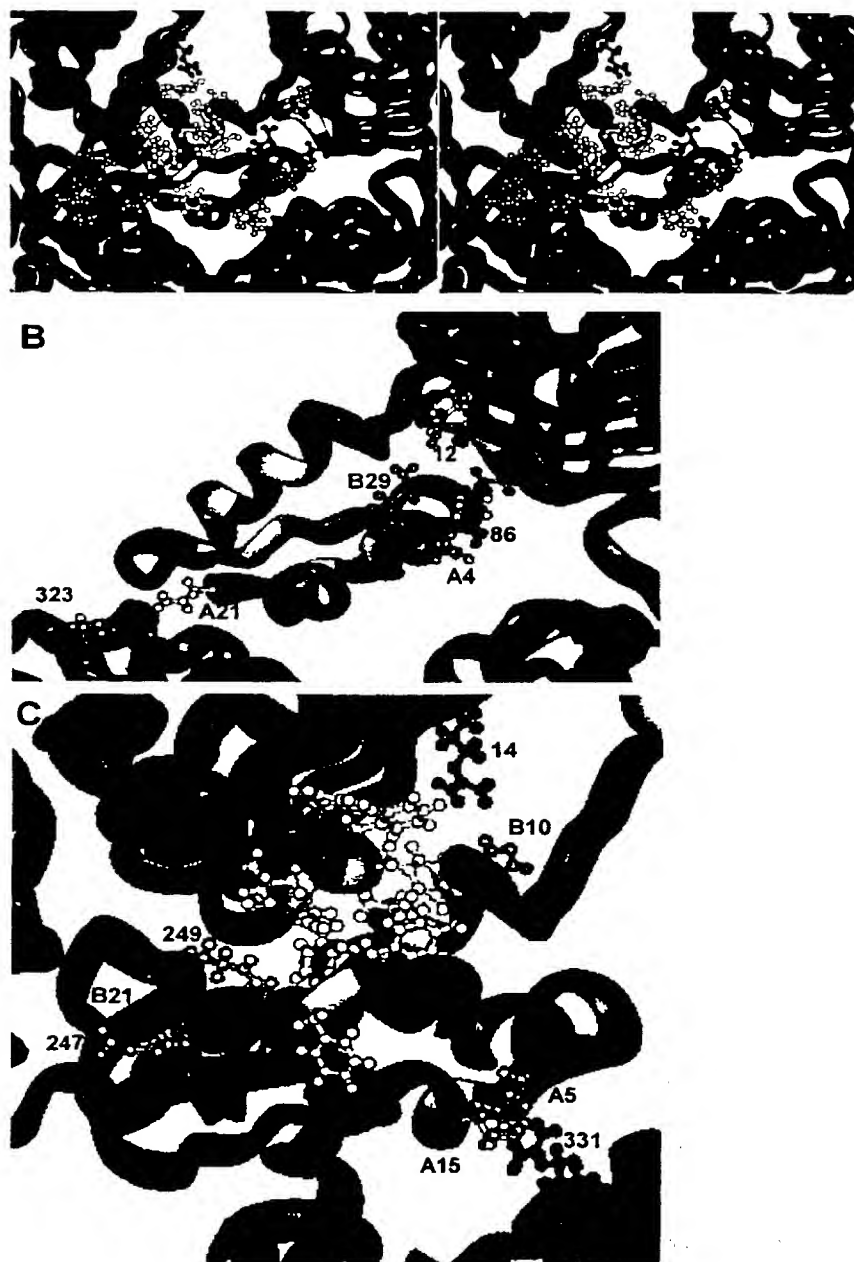


Fig. 8.

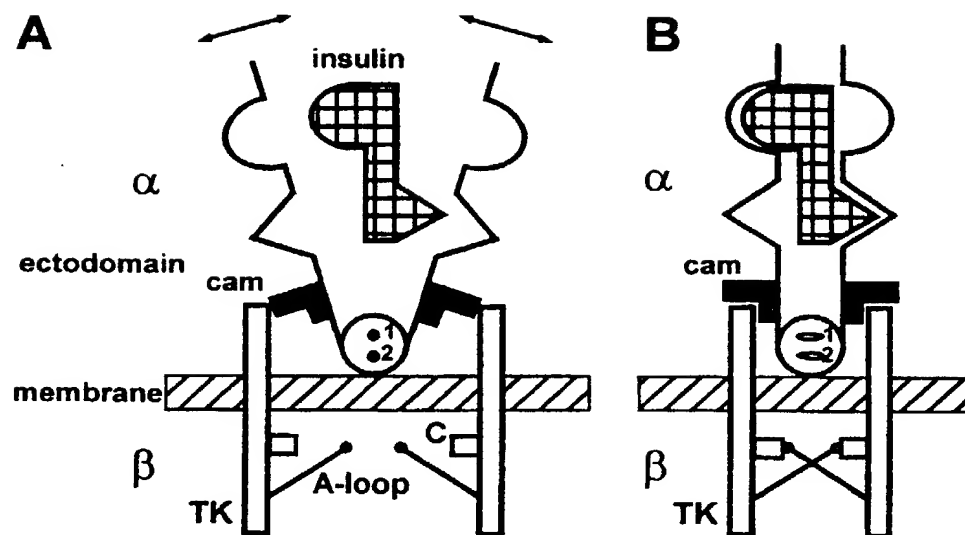


Fig. 9.

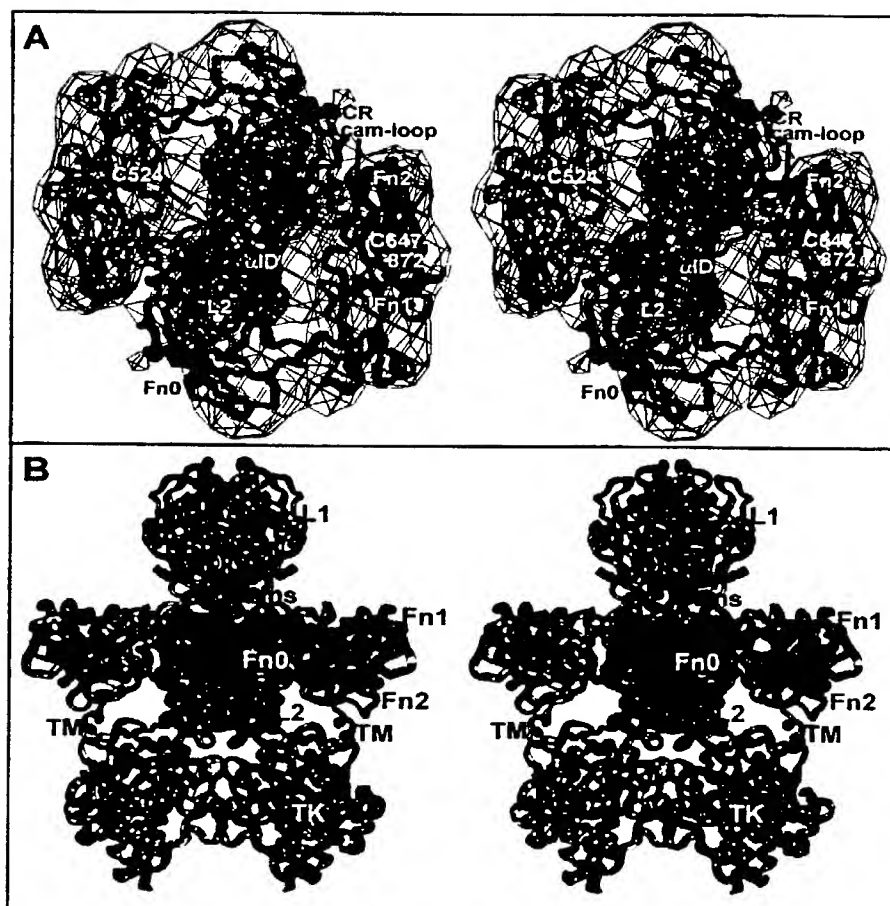


Fig.10.

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(a) Human Insulin

B-chain FVNQH LCGSH LVEAL YLVCG ERGFF YTPKT

A-chain GIVEQ CCTSI CSLYQ LENYC N

(b) Bovine Insulin Bos taurus (Bovine)

B-chain FVNQH LCGSH LVEAL YLVCG ERGFF YTPKA

A-chain GIVEQ CCASV CSLYQ LENYC N

(c) Pig Insulin Sus scrofa (Pig)

B-chain FVNQH LCGSH LVEAL YLVCG ERGFF YTPKA

A-chain GIVEQ CCTSI CSLYQ LENYC N

Figure 11

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Human Insulin Receptor

Leader Sequence

MGTTGGRRGAA AAPLLVAVAA LLLGAAG

Alpha subunit

HLYPGEVCPG	MDIRNNLTRL	HELENCSVIE	GHLQILLMFK	TRPEDFRDLS	50
FPRLIMITDY	LLLFRVYGLE	SLKDLFPNLT	VIRGSRLFFN	YALVIFEMVH	100
LKELGLYNLM	NITRGSVRIE	KNNELCYLAT	IDWSRILDSV	EDNHIVLNKD	150
DNEECGDICP	GTAKGKTNCP	ATVINGQFVE	RCWTHSHCQK	VCPTICKSHG	200
CTAEGLCCHS	ECLGNCSQPD	DPTKCVACRN	FYLDGRCVET	CPPPPYHFQD	250
WRCVNFSPCQ	DLHHKCKNSR	ROGCHOYVIH	NNKCIPECPS	GYTMNSSNLL	300
CTPCLGPCPK	VCHLLEGEKT	IDSVTSAQEL	RGCTVINGSL	IINIRGGNNL	350
AAELEANLGL	IEEISGYLKI	RRSYALVSL	FFRKLRLIRG	ETLEIGNYSF	400
YALDNQNLRO	LWDWSKHNLT	TTQGLFFHY	NPKLCLSEIH	KMEEVSGTKG	450
ROERNDIALK	TNGDKASCEN	ELLKFSYIRT	SFDKILLRWE	PYWPPDFRDL	500
LGFMIFYKEA	PYQNVTEFDG	QDACGSNSWT	VVDIDPPLRS	NDPKSQNHFG	550
WLMRGLKPWT	QYAIQVKTIV	TFSDERRTYG	AKSDIIYVQT	DATNPSPVPLD	600
PISVSNSSSQ	IILKWKPPSD	PNGNITHYLV	FWEROAEDSE	LFELDYCLKG	650
LKLPSRTWSP	PFSESDSQKH	NQSEYEDSAG	ECCSCPKTDS	QILKELEESS	700
FRKTFEDYLE	NVVFVPRPS				719

Cutting site

R KRR 723

Beta subunit

	SLGDVGN	VTVAVPTVAA	FPNTSSTSV	750	
TSPEEHRPFE	KVVNKESLVI	SGLRHFTGYR	IELQACNQDT	PEERCSVAAY	800
VSARTMPEAK	ADDIVGPVTH	EIFENNVVHL	MWQEPKEPNG	LIVLYEVSYS	850
RYGDEELHLC	VSRKHFALE	GCRLRGLSPG	NYSVRIRATS	LAGNGSWTEP	900
TYFYVTDYLD	VPSNIAKIII	GPLIFVFLFS	VVIGSIYLF	RKRQPDGPLG	950
PLYASSNPEY	LSASDVFP	CS VYVPDEWEVS	REKITLLREL	CQGSFGMVYE	1000
GNARDIIEGE	AETRVAVKTV	NESASLRERI	EFLNEASVMK	GFTCHHVRL	1050
LGVVSKGOPT	LVMELMAHG	DLKSYLRSR	PEAENNPGR	PPTLQEMIQM	1100
AAEIADGMAY	LNAKFFVHRD	LAARNCMVAH	DFTVKIGDFG	MTRDIYETDY	1150
YRKGGKGLLP	VRWMAPESLK	DGVFTTSSDM	WSFGVVLWEI	TSLAEQPYQG	1200
LSNEQVLKFV	MDGGYLDQPD	NCPERVTDLM	RMQWQFNPKM	RPTFLEIVNL	1250
LKDDLHPSFP	EVSFFHSEEN	KAPESEELM	EFEDMENVPL	DRSSHCQREE	1300
AGGRDGGSSL	GFKRSYEEHI	PYTHMNGGKK	NGRILTLP	RPS	1343

Fig. 12.

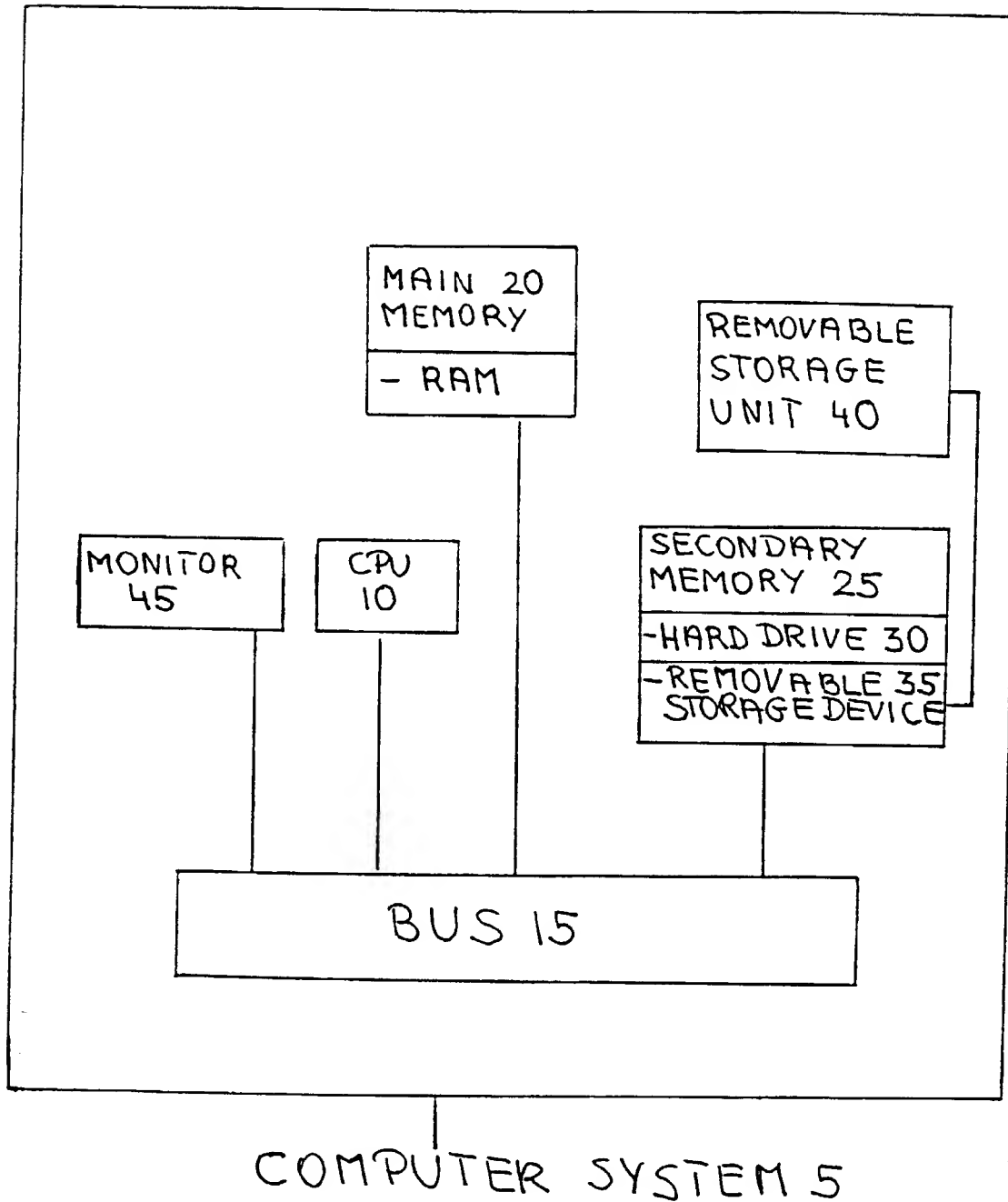


Fig. 13.